

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|------------------------------------|---|------------------|---------|------------------|
| S1 | 44 | (calvin near james).in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 12:22 |
| S2 | 117 | 375/271.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 14:23 |
| S3 | 0 | S1 and S2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 14:23 |
| S4 | 1 | S1 and fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 14:49 |
| S5 | 98 | fsk same pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 14:52 |
| S6 | 4 | ((("5416480") or ("5805094"))).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/14 14:53 |
| S7 | 19 | S5 and transformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:12 |
| S8 | 2 | ("5206540").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/14 14:57 |

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|-----|-------|----------------------|---|----|----|------------------|
| S9 | 4476 | pwm same transformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:23 |
| S10 | 725 | pwm with encod\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:23 |
| S11 | 31 | S10 and fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:24 |
| S12 | 31 | S9 and S10 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:31 |
| S13 | 45084 | foxcomm hart | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:31 |
| S14 | 24 | S13 with fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:31 |
| S15 | 98 | fsk same pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:59 |
| S16 | 25 | S15 and modem | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:49 |

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|-----|-----|---|---|----|-----|------------------|
| S17 | 8 | ((("4556063") or ("4571589") or ("4698111") or ("5127404")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/14 15:50 |
| S18 | 0 | S17 and (pwm fsk) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 15:50 |
| S19 | 2 | ("5541604").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/14 16:36 |
| S20 | 2 | ("4899158").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/14 16:36 |
| S21 | 10 | ("4899158").URPN. | USPAT | OR | ON | 2005/11/14 16:36 |
| S22 | 4 | ("3984835" "4242661" "4333078" "4647931").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/14 16:41 |
| S23 | 6 | ((("3942168") or ("5682476") or ("5793963")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/14 16:42 |
| S24 | 1 | S23 and (pwm fsk) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/14 16:42 |
| S25 | 115 | (fsk psk) with (pwm (pulse near width near modulat\$4)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 12:22 |

EAST Search History

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| S26 | 23 | (fsk psk) with (pwm (pulse near width near modulat\$4)) with (encod\$4 cod\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 12:57 |
| S27 | 26837 | field near device | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 12:58 |
| S28 | 11750 | fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 12:58 |
| S29 | 100 | S27 and S28 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 12:58 |
| S30 | 2 | S29 and pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 12:58 |
| S31 | 0 | ("2002/0150156").URPN. | USPAT | OR | ON | 2005/11/22 13:12 |
| S32 | 3 | ("3942168").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/22 13:13 |
| S33 | 0 | pwm and fsk and S32 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 13:13 |
| S34 | 1 | ("p.w.m." pwm (pulse near width near modulat\$4)) and fsk and S32 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 13:20 |

EAST Search History

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|-----|------|---|---|----|----|------------------|
| S35 | 1987 | (power near line) same modem | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 13:20 |
| S36 | 10 | ("p.w.m." pwm (pulse near width near modulat\$4)) and fsk and S35 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 13:22 |
| S37 | 145 | fsk and S35 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 13:22 |
| S38 | 131 | S37 and modulat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 13:22 |
| S39 | 5 | ("4538224" "5157519" "5615211" "5777991" "5892758").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/22 14:34 |
| S40 | 1987 | (power near line) same modem | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 14:34 |
| S41 | 145 | fsk and S40 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 14:34 |
| S42 | 131 | S41 and modulat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 14:34 |
| S43 | 127 | S42 | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/22 14:34 |

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|-----|--------|---------------------------------|---|----|----|------------------|
| S44 | 93755 | pulse with modulat\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/22 14:34 |
| S45 | 127 | S41 and S42 | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/22 14:34 |
| S46 | 127 | S41 and S45 | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/22 14:34 |
| S47 | 25 | S41 and S44 | US-PGPUB; USPAT; USOCR | OR | ON | 2005/11/22 15:03 |
| S48 | 8 | modem same pwm same transformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:08 |
| S49 | 101885 | power near line | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:03 |
| S50 | 4489 | pwm same transformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:08 |
| S51 | 520 | S49 and S50 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:08 |
| S52 | 32 | S51 and modem | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:17 |
| S53 | 459 | power near line near modem | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:18 |

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|-----|-------|------------------------|---|----|----|------------------|
| S54 | 8717 | pwm and transformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:18 |
| S55 | 2 | S53 and S54 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:18 |
| S56 | 7 | pwm and S53 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:19 |
| S57 | 45149 | foxcomm hart | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:20 |
| S58 | 84 | fsk and S57 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:20 |
| S59 | 4 | S58 and pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:20 |
| S60 | 0 | ("2005/0242979").URPN. | USPAT | OR | ON | 2005/11/22 15:23 |
| S61 | 27 | S58 and modem | USPAT | OR | ON | 2005/11/22 15:23 |
| S62 | 38 | S58 and modem | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:26 |
| S63 | 404 | (fm fsk) same pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:26 |

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|-----|--------|--|---|----|----|------------------|
| S64 | 118 | S63 and transformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:31 |
| S65 | 46 | S63 and modem | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:37 |
| S66 | 0 | modulat\$4 with (further adj modulat\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:39 |
| S67 | 0 | fsk with (further adj modulat\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:40 |
| S68 | 310 | (modem fsk) same (pwm (pulse near width near modulat\$4)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:40 |
| S69 | 419846 | transformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:40 |
| S70 | 54 | S68 and S69 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:40 |
| S71 | 23 | ("5138118").URPN. | USPAT | OR | ON | 2005/11/22 15:56 |
| S72 | 41 | fsk same modem same transformer | USPAT | OR | ON | 2005/11/22 15:56 |
| S73 | 54 | fsk same modem same transformer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 15:58 |

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|-----|--------|---|---|----|----|------------------|
| S74 | 55 | fsk and relay and pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 16:00 |
| S75 | 1929 | modulat\$4 near series | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 16:10 |
| S76 | 786659 | transformer relay | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 16:10 |
| S77 | 478 | S75 and S76 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 16:11 |
| S78 | 5 | fsk and S77 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 16:13 |
| S79 | 113 | fixed near frequency near pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 16:13 |
| S80 | 3 | (fsk am) and S79 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 17:36 |
| S81 | 373 | fsk same ((delta near sigma) (digital near analog)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 17:39 |

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|-----|------|--|---|----|-----|------------------|
| S82 | 1912 | ((delta near sigma) (digital near analog)) with ((pulse near width) pwm) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 17:37 |
| S83 | 2 | S81 and S82 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 17:37 |
| S84 | 14 | fsk same ((delta near sigma)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 17:42 |
| S85 | 7 | fsk same ((delta near sigma near modulat\$4)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 18:06 |
| S86 | 192 | fsk and pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 18:06 |
| S87 | 108 | S86 and @ad<"20001110" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:04 |
| S88 | 2 | ("6295272").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/11/22 18:47 |
| S89 | 1 | transformer and S88 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/22 18:47 |

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|-----|----------|---|---|----|-----|------------------|
| S90 | 105 | ((("p.w.m.") pwm (pulse adj width adj modulat\$4)) with fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:27 |
| S91 | 19934100 | @ad<"20001116" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:09 |
| S92 | 52 | S90 and S91 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 14:13 |
| S93 | 2 | ("5673278").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/04 14:13 |
| S94 | 1 | ((("p.w.m.") pwm (pulse adj width adj modulat\$4)) and fsk and S93 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 14:14 |
| S95 | 3 | ("5673278").URPN. | USPAT | OR | ON | 2006/08/04 14:24 |
| S96 | 6 | ("4549180" "5051743" "5083288" "5289500" "5420578" "5451923").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/08/04 14:27 |
| S97 | 2 | ("5289500").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/08/04 14:28 |
| S98 | 1 | fsk and S97 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 14:58 |

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| S99 | 552 | copper same (high adj speed adj data) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 14:59 |
| S10 0 | 16 | fsk and S99 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 14:59 |
| S10 1 | 4 | transformer and S100 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:09 |
| S10 2 | 2 | transformer and S99 and (pwm nrz) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:10 |
| S10 3 | 3526 | transformer and data and (pwm nrz) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:11 |
| S10 4 | 985 | transformer and (data with high) and (pwm nrz) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:11 |
| S10 5 | 2238 | transformer and (speed with high) and (pwm nrz) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:11 |
| S10 6 | 434 | transformer and (data adj rate) and (pwm nrz) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:11 |

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|----------|----------|--|---|----|----|------------------|
| S10 7 | 35 | transformer and (data adj rate) and (pwm nrz) and fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:13 |
| S10 8 | 105 | transformer and (data adj rate) and (pwm nrz) and copper | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:13 |
| S10 9 | 19934100 | @ad<"20001116" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:13 |
| S11 0 | 68 | S108 and S109 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/04 15:13 |
| S11 1 | 34 | (transformer with advantage) and LAN and (high adj speed) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 18:28 |
| S11 2 | 238 | (transformer with isolat\$4) and LAN and (high adj speed) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 18:28 |
| S11 3 | 231 | fsk and pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 18:28 |
| S11 4 | 111 | S113 and @ad<"20001110" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 18:28 |

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| S11 5 | 19915443 | @ad<"20001110" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 18:28 |
| S11 6 | 114 | S112 and S115 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:07 |
| S11 8 | 4 | fsk convert\$4 pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2006/08/20 19:09 |
| S11 9 | 86 | fsk pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2006/08/20 19:09 |
| S12 0 | 19937290 | @ad<"20001116" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:36 |
| S12 1 | 38 | S119 and S120 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:35 |
| S12 2 | 664260 | control adj system | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:36 |
| S12 3 | 58 | pwm and fsk and S122 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:36 |

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|----------|----------|----------------------------------|---|----|----|------------------|
| S12 4 | 19937290 | @ad<"20001116" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:36 |
| S12 5 | 30 | S123 and S124 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:37 |
| S12 6 | 30007 | field near device | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:38 |
| S12 7 | 194 | field and pwm and fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:38 |
| S12 8 | 84 | S124 and S127 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:38 |
| S12 9 | 53 | S128 and (isolat\$4 transformer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:50 |
| S13 0 | 0 | S126 and S129 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:39 |
| S13 1 | 11 | S126 and S127 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:48 |

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| S13 3 | 1715 | pwm with advantage | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:52 |
| S13 4 | 189 | S133 and S124 and (isolat\$4 transformer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 19:51 |
| S13 5 | 0 | pwm with (advantage near over) with fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:26 |
| S13 6 | 7950 | 375/238,219,220,222,271,272-278, 303-307,258,334-337.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:26 |
| S13 7 | 956 | 363/41.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:26 |
| S13 8 | 1683 | 324/547,127.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:26 |
| S13 9 | 115 | 327/11.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:27 |
| S14 0 | 1164 | 330/276,154,165,171.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:27 |

EAST Search History

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| S14 1 | 362 | 330/188,190,195,197.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:27 |
| S14 2 | 12165 | S136 S137 S138 S139 S140 S141 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:27 |
| S14 3 | 105 | ((("p.w.m.") pwm (pulse adj width adj modulat\$4)) with fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:27 |
| S14 4 | 1597240 | transformer isolat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:27 |
| S14 5 | 46 | S143 and S144 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:28 |
| S14 6 | 5 | S145 and S142 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/20 21:28 |
| S14 7 | 118 | ((("p.w.m.") pwm (pulse near width near modulat\$4)) with fsk | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:03 |
| S14 8 | 166 | ((("p.w.m.") pwm (pulse near width near modulat\$4)) with (fsk (frequency near shift near keying)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:23 |

EAST Search History

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| S14 9 | 259 | fsk and pwm | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:04 |
| S15 0 | 111 | S149 and @ad<"20001110" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:17 |
| S15 1 | 27 | transformer and S150 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:08 |
| S15 2 | 69 | S148 and @ad<"20001110" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:23 |
| S15 3 | 44 | modem same (conver\$4 with (("p. w.m.") pwm (pulse near width near modulat\$4))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:37 |
| S15 4 | 4 | fsk and S153 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:24 |
| S15 5 | 8895 | transformer same (((("p.w.m.") pwm (pulse near width near modulat\$4))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:37 |
| S15 6 | 4990 | transformer with (((("p.w.m.") pwm (pulse near width near modulat\$4))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:37 |

EAST Search History

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| S15 7 | 118 | fsk with (((("p.w.m.") pwm (pulse near width near modulat\$4))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:39 |
| S15 8 | 2 | S156 and S157 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:39 |
| S15 9 | 19957933 | @ad<"20001116" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:39 |
| S16 0 | 415 | fsk and (((("p.w.m.") pwm (pulse near width near modulat\$4))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/25 15:39 |
| S16 1 | 52 | S157 S159 S160 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2007/03/25 15:39 |